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|---------------------|-------------|--|---|---------------------|
| - | 1857 | vertebr\$5 and pedicle\$1 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/24 13:33 |
| - | 789 | (vertebr\$5 and pedicle\$1) and imag\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/24 13:33 |
| - | 91 | (vertebr\$5 and pedicle\$1) same image\$1 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/24 14:17 |
| - | 8 | 6185320.pn.,5531227.pn.,6272366.pn.5627907.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/24 14:08 |
| - | 284 | (vertebr\$5 and pedicle\$1) and image\$1 and spine\$1 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/24 14:25 |
| - | 2239 | 382/128,131,132.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/30 09:24 |
| - | 8 | 382/128,131,132.ccls. and ((vertabra\$4 or spine\$1) and pedicle\$1) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/28 16:44 |
| - | 2 | US-522806A-\$.DID. OR US-940635A1-\$.DID. OR US-616086A-\$.DID. OR US-550904A-\$.DID. OR US-603828-\$.DID. OR US-553308A-\$.DID. OR US-557708A-\$.DID. OR US-567329A-\$.DID. OR US-574554A-\$.DID. OR US-584183-\$.DID. OR US-584183A-\$.DID. OR US-530836-\$.DID. OR US-608168A-\$.DID. OR US-R23616E-\$.DID. OR US-628764-\$.DID. OR US-5291537-\$.DID. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/28 16:47 |
| - | 333 | ((vertabrae\$1 or spine) and pedicle\$1) and (x adj ray\$1) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/29 09:23 |

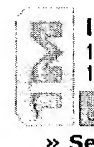
| | | | | |
|---|-------|--|---|---------------------|
| - | 239 | (((vertabrae\$1 or spine) and pedicle\$1) and (x adj ray\$1)) and ((curvature or curv\$4) or sciolosis or sciol\$5) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/29 09:24 |
| - | 28 | 5228068.pn.,9406351.pn.,6160866.pn.,5509042.pn.,5577089.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/29 15:03 |
| - | 0 | 5228068.pn.,9406351.pn.,6160866.pn.,5509042.pn.,5577089.pn. and pedicle\$1 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/29 15:03 |
| - | 18535 | 5228068.pn.,9406351.pn.,6160866.pn.,5509042.pn.,5577089.pn. or vertebra\$1 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/29 15:03 |
| - | 21 | 5228068.pn.,9406351.pn.,6160866.pn.,5509042.pn.,5577089.pn. and vertebra\$1 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/29 15:03 |
| - | 47 | ((front\$6 near4 imag\$4) same (vertabrae\$1 or spine\$1)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/29 15:34 |
| - | 12 | (((front\$6 near4 imag\$4) same (vertabrae\$1 or spine\$1))) and pedicle\$1 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/29 15:37 |
| - | 35 | (((front\$6 near4 imag\$4) same (vertabrae\$1 or spine\$1))) not (((front\$6 near4 imag\$4) same (vertabrae\$1 or spine\$1))) and pedicle\$1 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/29 15:39 |
| - | 3738 | 382/100,128,131,132;128/922;250/455.11/378/46,10591,10592,10593,10594,10595,10596.ccl | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/29 15:40 |
| - | 10 | 382/100,128,131,132;128/922;250/455.11/378/46,10591,10592,10593,10594,10595,10596.ccl and (vertabrae\$1 or spine) and pedicle\$1 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/29 15:45 |

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|---|------|---|---|---------------------|
| - | 3636 | 382/100,128,131,132.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/29 15:46 |
| - | 145 | 382/100,128,131,132.ccls. and (vertebra\$1 or spine\$1) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/29 15:46 |
| - | 156 | 382/100,128,131,132;128/922;250/455.11/378/46,128/922.6.ccls. and (vertebra\$1 or spine\$1) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/30 09:48 |
| - | 156 | 382/100,128,131,132;128/922;250/455.11/378/46,128/922.6.ccls. and (vertebra\$2 or spine\$1) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/29 16:01 |
| - | 4050 | (vertebra\$2 or spine\$1) same (curve or curving or curves or curvature or scoliosis or scoliotic) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/29 16:02 |
| - | 771 | ((vertebra\$2 or spine\$1) same (curve or curving or curves or curvature or scoliosis or scoliotic)) and imag\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/29 16:03 |
| - | 496 | ((((vertebra\$2 or spine\$1) same (curve or curving or curves or curvature or scoliosis or scoliotic)) and imag\$3) and ((x adj ray\$1) or radiogr\$7 or tomography or CT or MRI or ultrasound or doppler) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/29 16:05 |
| - | 116 | (((((vertebra\$2 or spine\$1) same (curve or curving or curves or curvature or scoliosis or scoliotic)) and imag\$3) and ((x adj ray\$1) or radiogr\$7 or tomography or CT or MRI or ultrasound or doppler)) and pedicle\$1 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/29 16:32 |
| - | 2242 | 382/128,131,132.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/30 09:24 |
| - | 142 | 382/128,131,132.ccls. and (vertebra\$5 or spine\$2) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/30 09:47 |

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pedicle

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1 System for intra-operative monitoring of the cortical integrity of the pedicle during pedicle screw placement in low-back surgery: design and clinical results

Journee, H.L.; Pavlov, P.W.; Polak, B.; de Bruin, S.;

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Pages:144 - 145 vol.1

[Abstract] [PDF Full-Text (240 KB)] IEEE CNF

2 CT determination of pedicle canal diameter

Jacobson, D.R.; Larson, S.J.;

Engineering in Medicine and Biology Society, 1989. Images of the Twenty-First Century. Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 9-12 Nov. 1989

Pages:491 vol.2

[Abstract] [PDF Full-Text (64 KB)] IEEE CNF

3 Facet joint loading in thoracolumbar burst fractures

Langrana, N.A.; Harten, R.D., Jr.; Lin, D.C.; Reiter, M.; Lee, C.K.;

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[Abstract] [PDF Full-Text (252 KB)] IEEE CNF

4 Medical image-based design of an individualized surgical guide for pedicle screw insertion

Van Brussel, K.; Vander Sloten, J.; Van Audekercke, R.; Swaelens, B.; Richar Assaker, R.; Kulik, J.F.;
Engineering in Medicine and Biology Society, 1996. Bridging Disciplines for Biomedicine. Proceedings of the 18th Annual International Conference of the IEEE , Volume: 1 , 31 Oct.-3 Nov. 1996
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5 Computer-assisted simulation model of the counter-current heat-exchange mechanism at the testicular vascular pedicle

Tritto, G.;

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6 Relationship between pain and intersegmental spinal motion characteristics in low-back pain subjects

Dickey, J.P.; Pierrynowski, M.R.; Galea, V.; Bednar, D.A.; Yang, S.X.;

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Pages:260 - 264 vol.1

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7 Spinal implants: past, present, and future

Serhan, H.A.;

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8 A system for ultrasound based intraoperative navigation in spine surgery

Weber, P.K.; Schlegel, J.C.; Meiche, J.; Peter, L.; Harland, U.;

Ultrasonics Symposium, 2001 IEEE , Volume: 2 , 7-10 Oct. 2001
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9 Nonlinear finite-element analysis and biomechanical evaluation of the lumbar spine

Wong, C.; Gehrchen, P.M.; Darvann, T.; Kiaer, T.;

Medical Imaging, IEEE Transactions on , Volume: 22 , Issue: 6 , June 2003
Pages:742 - 746

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10 In vivo 3D rotational segmental spinal kinematics in low back pain patients

Dickey, J.P.; Pierrynowski, M.R.; Bednar, D.A.; Ball, K.A.;

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11 Biomechanics of Steffee plate fixation

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12 Soft tissues' expanders: computer-assisted simulation of elastic material deformation and fractal vascular geometries in controlled skin expansion

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Pages:1951 - 1952 vol.6

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13 Bone-mounted miniature robot for surgical procedures: Concept and clinical applications

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